

## SEQUENCE LISTING

<110> Morinaga Milk Industry Co., Ltd.

<120> Drug for Cancer Therapy

<130> FP1600PC5001

<150> JP2004-80454

<151> 2004-03-19

<160> 3

<170> PatentIn Ver. 3.1

<210> 1

<211> 708

<212> PRT

<213> Bos taurus

<220>

<221> sig\_peptide

<222> (1)...(19)

<223> Lactoferrin

<400> 1

Met Lys Leu Phe Val Pro Ala Leu Leu Ser Leu Gly Ala Leu Gly Leu

1

5

10

15

Cys Leu Ala Ala Pro Arg Lys Asn Val Arg Trp Cys Thr Ile Ser Gln

20

25

30

Pro Glu Trp Phe Lys Cys Arg Arg Trp Gln Trp Arg Met Lys Lys Leu

35

40

45

Gly Ala Pro Ser Ile Thr Cys Val Arg Arg Ala Phe Ala Leu Glu Cys

50	55	60			
Ile Arg Ala Ile Ala Glu Lys Lys Ala Asp Ala Val Thr Leu Asp Gly					
65	70	75	80		
Gly Met Val Phe Glu Ala Gly Arg Asp Pro Tyr Lys Leu Arg Pro Val					
	85	90	95		
Ala Ala Glu Ile Tyr Gly Thr Lys Glu Ser Pro Gln Thr His Tyr Tyr					
100	105	110			
Ala Val Ala Val Val Lys Lys Gly Ser Asn Phe Gln Leu Asp Gln Leu					
115	120	125			
Gln Gly Arg Lys Ser Cys His Thr Gly Leu Gly Arg Ser Ala Gly Trp					
130	135	140			
Ile Ile Pro Met Gly Ile Leu Arg Pro Tyr Leu Ser Trp Thr Glu Ser					
145	150	155	160		
Leu Glu Pro Leu Gln Gly Ala Val Ala Lys Phe Phe Ser Ala Ser Cys					
	165	170	175		
Val Pro Cys Ile Asp Arg Gln Ala Tyr Pro Asn Leu Cys Gln Leu Cys					
180	185	190			
Lys Gly Glu Gly Glu Asn Gln Cys Ala Cys Ser Ser Arg Glu Pro Tyr					
195	200	205			
Phe Gly Tyr Ser Gly Ala Phe Lys Cys Leu Gln Asp Gly Ala Gly Asp					
210	215	220			
Val Ala Phe Val Lys Glu Thr Thr Val Phe Glu Asn Leu Pro Glu Lys					
225	230	235	240		
Ala Asp Arg Asp Gln Tyr Glu Leu Leu Cys Leu Asn Asn Ser Arg Ala					
	245	250	255		
Pro Val Asp Ala Phe Lys Glu Cys His Leu Ala Gln Val Pro Ser His					
260	265	270			
Ala Val Val Ala Arg Ser Val Asp Gly Lys Glu Asp Leu Ile Trp Lys					
275	280	285			
Leu Leu Ser Lys Ala Gln Glu Lys Phe Gly Lys Asn Lys Ser Arg Ser					
290	295	300			
Phe Gln Leu Phe Gly Ser Pro Pro Gly Gln Arg Asp Leu Leu Phe Lys					
305	310	315	320		

Asp Ser Ala Leu Gly Phe Leu Arg Ile Pro Ser Lys Val Asp Ser Ala			
	325	330	335
Leu Tyr Leu Gly Ser Arg Tyr Leu Thr Thr Leu Lys Asn Leu Arg Glu			
	340	345	350
Thr Ala Glu Glu Val Lys Ala Arg Tyr Thr Arg Val Val Trp Cys Ala			
	355	360	365
Val Gly Pro Glu Glu Gln Lys Lys Cys Gln Gln Trp Ser Gln Gln Ser			
	370	375	380
Gly Gln Asn Val Thr Cys Ala Thr Ala Ser Thr Thr Asp Asp Cys Ile			
385	390	395	400
Val Leu Val Leu Lys Gly Glu Ala Asp Ala Leu Asn Leu Asp Gly Gly			
	405	410	415
Tyr Ile Tyr Thr Ala Gly Lys Cys Gly Leu Val Pro Val Leu Ala Glu			
	420	425	430
Asn Arg Lys Ser Ser Lys His Ser Ser Leu Asp Cys Val Leu Arg Pro			
	435	440	445
Thr Glu Gly Tyr Leu Ala Val Ala Val Val Lys Lys Ala Asn Glu Gly			
	450	455	460
Leu Thr Trp Asn Ser Leu Lys Asp Lys Lys Ser Cys His Thr Ala Val			
465	470	475	480
Asp Arg Thr Ala Gly Trp Asn Ile Pro Met Gly Leu Ile Val Asn Gln			
	485	490	495
Thr Gly Ser Cys Ala Phe Asp Glu Phe Phe Ser Gln Ser Cys Ala Pro			
	500	505	510
Gly Ala Asp Pro Lys Ser Arg Leu Cys Ala Leu Cys Ala Gly Asp Asp			
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Gln Gly Leu Asp Lys Cys Val Pro Asn Ser Lys Glu Lys Tyr Tyr Gly			
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Tyr Thr Gly Ala Phe Arg Cys Leu Ala Glu Asp Val Gly Asp Val Ala			
545	550	555	560
Phe Val Lys Asn Asp Thr Val Trp Glu Asn Thr Asn Gly Glu Ser Thr			
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Ala Asp Trp Ala Lys Asn Leu Asn Arg Glu Asp Phe Arg Leu Leu Cys			

[illegible]

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<212> PRT  
<213> Bos taurus

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 <212> PRT  
 <213> Bos taurus

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Ser Ile Thr Cys Val Arg Arg Ala Phe Ala

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